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### (54) POLYMERIC SUBSTANCE HAVING SWELLING TENDENCY

#### (57)Abstract:

PURPOSE: To prepare a water-insoluble, water-swelling polymeric substance which reversibly absorbs and desorbs water, and useful as an agent for the water-retention, the water and moisture-control in the cultivation of plant, without using a solvent other than water, by polymerizing acrylic acid in the presence of a basic salt of phosphoric acid.

CONSTITUTION: A polymeric substance obtained by polymerizing (A) acrylic acid which is preferably reacted with an acrylamide N-monosubstituted compound or an acrylamide N,N-disubstituted compound in the presence of (B) a basic salt of phosphoric acid such as tripotassium phosphate, and if necessary, (C) ammonia or ammonium hydroxide.

EFFECT: Flexibility in the composition according to the use. Cation exchanging and coagulation. Stable in water for a long period.

USE: Water treatment, heat insulation, etc. A composite material with paper, fiber, etc.

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### LEGAL STATUS

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